

DEPARTMENT OF TRANSPORTATION

MATERIALS TRANSPORTATION BUREAU

WASHINGTON, D.C. 20590

24335

[49 CFR Parts 171, 172, 173, 175, 176] [Docket No. HM-139; Notice No. 7]

TRANSPORTATION OF HAZARDOUS MATERIALS

Individual Exemptions, Conversion to Regulations of General Applicability

AGENCY: Materials Transportation Bureau, DOT.

ACTION: Notice of proposed rulemaking.

SUMMARY: The Materials Transportation Bureau is considering amending the regulations governing the transportation of hazardous materials to incorporate therein a number of changes

based on existing exemptions which have been granted to individual applicants allowing them to perform particular functions in a manner that varies from that specified by the regulations. Adoption of these exemptions as rules of general applicability would provide wider access to the benefits of transportation innovations recognized as effective and safe.

DATES: Comments by July 5, 1978.

ADDRESS COMMENTS TO: Dockets Section, Office of Hazardous Materials Regulation, Materials Transportation Bureau, Department of Transportation, Washington, D.C. 20590. It is requested that five copies be submitted.

FOR FURTHER INFORMATION CONTACT:

Alan I. Roberts, Associate Director for Hazardous Materials Regulation, Materials Transportation Bureau, 2100 Second Street SW., Washington, D.C. 20590, 202-426-0656.

SUPPLEMENTARY INFORMATION: Each of the proposed amendments described in the following table is founded upon either: (1) Actual shipping experience gained under un exemption, or (2) the data and analysis supplied in the application. In each case the resulting level of safety being afforded the public is considered at least equal to the level of safety provided by the current regulations. Primary drafters of this proposal are Darrell L. Raines, and John C. Allen, Office of Hazardous Materials Regulation, and Evan Braude, Office of the Chief Counsel, Research and Special Programs Administration. These proposals would

not significantly affect the costs of regulatory enforcement, nor would additional costs be imposed on the private sector, consumers, or Federal, State or local governments, since these proposals would merely authorize the general use of shipping alternatives previously available to only a few users under exemptions. The safety record of shipments under the identified exemptions demonstrates that significant environmental impacts would not result from any of the proposals. Adoption of an amendment derived from an existing exemption would obviate the need for that exemption and effectively terminate it. Upon such termination, the holder of the exemp tion and parties thereto would be individually notified. Adoption of an amendment derived from an application for exemption should provide the relief sought, in which event the exemption request would be denied and the applicant so notified. In the event the Bureau decides not to adopt any of these proposals each pertinent application would be evaluated and acted upon in accordance with the applicable provisions of the exemption procedures in 49 CFR Part 107, Subpart B. Consequently, persons commenting on proposed amendments may wish to address both the proposed amendment the exemption application. Consideration of comments of the merits of including within an amendment modes of transportation other than those for which the exemption application re-quested is anticipated. Each mode of transportation for which a particular exemption is authorized or requested is indicated in the "Nature of Exemption or Application" portion of the table below as follows: 1—Motor Vehi-cle, 2—Rail freight, 3—Cargo vessel, 4-Cargo-only aircraft, 5-Passengercarrying aircraft. The status of the exemption action is indicated in the column titled Identification Number where prefix "E" means an exemption has been issued and Prefix "SP" means a special permit exists under previous authorities. The suffix "No" means no applications for exemptions are pending, but the Bureau is taking action by this proposal; the suffix "X means a renewal application is pending; the suffix "P" means one or more party status applications are pending; and the suffix "N" means a new application for exemption is pending.

- 2 -Proposed amendments of hazardous materials regulations to terminate special:

),	Applicant hold		der Regulation affected cal 173.163(a) orp.		Nature of exemption or application Authorizes shipment of sodium chlorate and potassium chlorate in DOT Specification 56		nate special permits and exemptions Nature of proposed amendment				
		Kerr-McGee Chemica Corp., Pennwalt Cor Dow Chemical Co		Corp.					To add paragraph (9) to read: (9) Specification 56 (§ 178.252 of this subchapter). Metal portable tank. Authorized only for sodium chlorate and potassium chlorate. Aluminum tanks not authorized for transportation by water.				
						1 1	ethylene imine, inhib in DOT specification 4B240 and 4BW240 cylinders. Cylinders n be inspected in accord with 49 CFR 173.34(e (modes 1 and 3). Cylir made in compliance w DOT-4B240, DOT- 4BW240. Used exclusi- for ethylene imine, inhibited.	nay lance (K10) nders	To rev	se the table i	n paragraph (e)	(10) }	oy a dding.
	Identification No.	A	pplicant holde		gulation frected	×	ature of exemption or application	•		Nature of	proposed amen	dmer	nt
E 626	O-No., E 7256-No., E I-No.		Inc.; State tries; Hoyt Cor	172. p. 173.		con nit spe ste car gal pre psi	porizes shipments of impressed air or irrogen in non-DOT recification, single-trip rel tanks having a rate pactly of not over 87 flons and charged to a ressure of not over 35 g at 70° F (modes 1, 2 d 3).	ed.	ameno system t	the table in anks to read:	1 § 172.101 by 1	addin	g water pump
(1)	(2)	(3)	(4)		(5)		(6)				(7)		
• /	Hazardous materials	Hazard	Label(s)	Packaging			Maximum net quantity in 1 package		aty	Water shipments			
	descriptions and proper shipping names	class	required (if not excepted)	(a) Exceptions	(b) Speci requi: men	fic re-	(a) Passenger carrying aircraft or railcar	Care only aircra	3. Bo	(a) Cargo vessel	(b) Passenger vessel		(c) Other requirements
•		onfl <u>ammat</u> gas,	ole None	173.306	5	******	. Forbidden For	bidder	n	L	3 1	l, 3	
I	lentification No.	Apı	plicant holder		nation ected	Nat	ure of exemption or application			Nature of pi	roposed amendn	nent	***************************************
6260- 7588-J	No., E 7256-No., E	Amtrol II	nc., State ties, Hoyt Corp.	172.10 173.30		comp nitro speci steel capa gallo press	rizes shipments of pressed air or open in non-DOT ification, single-trip itanks having a rated city of not over 87 ms and charged to a sure of not over 35 at 70° F (modes 1, 2 3).	tan no shhi fees fees fees fees fees fees fees fee	nks chains chair in the control of t	er pump system gred with lin able gases to to installation to installation to installation to installation to installation to installation by air an ingling require near the following the part 174 of 77 except § 17 ank must be exsure, having to gallons and inches. Safet ank must be conver is greated that the formula: It times the converse in pount in the conversa in the conv	of steel, welded is a rated water in with outside in with outside in yrelief device in hydrostatically harged pressure in Test pressure must roughly in the pressure must roughly in the pressure in the distribution in the subparish. Inches, in linches, must be at least the subparish of the subparish in the subp	of interest of the second of t	nonliquefied, or single-trip rom labeling by water— he specifica- hapter when In addition, of this sub- cept \$174.24 in heads con- city not ex- eter not ex- quired. He of the property of th
6585-N	0	U.S. Depai	rtment of Defer	nse 172.101 173.65(i	(3) c t t p p fir fir	yclot etrar et w ound o poi a DO iber o ontai	izes shipments of tetramethylene intramine (HMX), ith not less than 10 is of water to each unds of dry material of specification 21C drums which do not in an antifreeze to not freezing (mode 1)	To an	nend th	e table in 6 17	overpacked in with § 173.301(k (2.101 by adding t with not less), 	

	(2)	(3) (4)		(5)		(6)					
•	Hazardous materials descriptions and proper shipping names			Packag	Packaging		et quantity		(7)		
*/ ₩/ A		Hazard class	Label(s) required (if not	(g)	(b)	(a)		Water shipments			
			excepted)	Exceptions	Specific require- ments	Passenger carrying aircraft or railcar	(b) Cargo only aircraft	(B) Cargo vessel	(b) Passenger Vessel	(c) Other requirement	
	Cyclotelramethylene Tetranitramine, wet with not less than 16 pet water, See high explosive										
	Identification No.	A p	plicant holder	Fiegulatio		ure of exemption or application		Nature of prop	osed amendmen		
	-No			173,65(e)(3	eyeic tetra wet v poun 90 po in DC fiber conta preve	rizes shipments of atetramethylene nitramine (HMX), with not less than 10 ds of water to each nunds of dry materia. The specification 21C drums which do not in an antifreeze to antifreezing (mode 1) and the specification 21C drums which do not in an antifreeze to antifreeze to the specification 21C drums which do not in an antifreeze to antifreeze in the specification 21C drums which was a specific to the specific transfer of transfe	Metal ba this subb trimethy trimethy tranitran water to tainers w coston d closed. T mine or metal ba not more containin tetrametr rubber ba able wate and then methylen tranitram to be anti- tured eth	paragraph 173.65(pecification 5B (prels or drums or hapter; fiber dru hapter; fiber dru hene-trinitramine nine, each wet wii each 90 pounds which must be ba uck, rubber, or r he dry weight o cyclotetramethy trel or drum mus than 225 pound g the cyclotrima than 225 pound g the cyclotrima trinitramin tg, rubberized clo relight material w placed in the dr eletranitramine ine is to take plac cipated, it must be yly alcohol or ot uch proportions t	sylva. 20 of this Specification 21 ms. Authorized a or exclotetian the not less than the first sylvarized cloth of cyclotrimethy elenetetranitran t not exceed 300 s in fiber drums hylene-trinitram the must then be the bag, or bag rhich must be sum. If shipmen or cyclotetran ex at time freezir wet with a mix	subchapter). C (§ 178.224 of only for cyclomethylene-te- 10 pounds of in inside con- east 10-ounce and securely elene-trinitra- nine in one of pounds and . These bags ine or cyclo- placed in a made of suit- curely closed to f cyclotrinethylene-te- E weather is . The of the cyclotrinethylene-te- E weather is .	
					certair DOT S nickel by carr limited commo unregu Docket drums capacit gallons	zes shipments of a corrosive liquids in a corrosive liquids in a corrosive liquids in section 5K drums. Shipments good to those dittes which were alated prior to 1. No. HM-57, in having a marked 1. You over 55 and 1. 2. 3. and 1. 4. 3. and 1. 2. 3. 3. 3. 3. 4. 4. 5. 4. 4. 5. 5. 4. 4. 5. 5. 4. 5. 4. 5. 5. 4. 5. 5. 5. 6. 6. 6. 6. 5. 5. 6. 6. 6. 6. 5. 5. 6. 6. 6. 6. 6. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	To revise pa (5) Spe- Nickel bar	ragraph (a)(5) to cification 5K (§ rtels or drums. A will not react with	read: 178.88 of this	subchapter).	
	No				and hy- hypoch as press	es shipments of dry chlorate mixture drated calcium dorite in containers cribed in 49 CFR (a)(7) (modes 1 and	(19) As t	graph (19) to read prescribed in § 17; a chlorate, dry as	167/	orized only cium hypo-	
		Jefferson Union Car	cal Co., e Eastman Co., Chemical Co., rbide Corp., Shamrock Corp		stowage liquids, corrosing which recorrosing of 49 CI mnd do a corrosing of 49 CI (mode 3	es under deck e of corrosive n.o.s., and ve solids, n.o.s., neet only the nr to skin criteria FR 173.240(a)(1) not meet the nr to metal criteria FR 173.240(a)(2)).	For mate teria of 49 also author entry speci-	ollowing in column orrosive solids, n.e rials that meet or CFR 173.240(a), ized if the descrip fied by § 172.203(i)	nly the corrosion 'under deck"	to skin cri-	
1686-N	o A	rthur E. Sci	holl	172.203(j)	Authorizes and othe devices te the wings of certain	s smoke grenades If pyrotechnic to be affixed to s and tall section to aircraft under conditions (mode	order to als sive liquid, only the cor co add paragr (11) Smok affixed to a quired flight at and as a p aeronautical ing the smok	"Skin Corrosive authorize "unde n.o.s., and corros	ive solid, n.o.s., eria of § 173.240(75.10 to read: . and pyrotechno person other tring any flight of air show or exhinstallation according to the strength of air show or exhinstallation according to the strength of air show or exhinstallation according to the strength of air show or exhinstallation according to the strength of the	for corro- that meet a (1). ic devices han a re- conducted dibition of ommodat	

Proposed amendments of hazardous materials regulations to terminate special permits and exemptions—Continued

Identification No.	Applicant holder	Regulation	Nature of exemption or application	Nature of proposed amendment			
E 7724-No	Atmospherics Inc., Colora River Municipal Water Division.	do 175.10	Authorizes carriage of certain hazardous materials aboard special aircraft used in weather modification, avaianche control or forest fire fighting under specified bonditions.	To add paragraph (a)(12) to § 175.10 to read. (a)(12) Hazardous materials which are loaded and e ried on or in cargo-only aircraft and which are to be opened or expended during flight for weather control of the reservation and protection, or avalanche compurposes when the following requirements are met: (b) Operations may not be conducted over densely puriated areas, in a congested airway, or near any airpy where air carrier passenger operations are conducted.			
				manual containing operational guidelines and handling procedures, for the use and guidance of flight, maintenance, and ground personnel concerned in the cispersing or expending of hazardous materials. The manual must be approved by the FAA district office having his distriction over the operator's certificate, if any, or the FAA regional office in the region where the operator is located. Each operation must be conducted in accordance with the manual. (iii) No person other than a required flight crewmember, FAA inspector, or person necessary for hardling or dispensing the hazardous material may be calried on the aircraft. (iv) The operator of the aircraft must have advance permission from the owner of any airport to be used for the dispensing or expending operation. (v) When dynamite and bissting caps are carried for avalanche control flights, the explosives must be armed dropped, and, at all times be, under the control of a blaster who is licensed under an authority approved by the FAA district office having jurisdiction over the operators.			
	Dow Chemical		Authorized the return of empty tank cars without shippers certification required by § 172.204. To establish the definition of "empty tank car," for clarification purposes, which is the same as that found in the Uniform Freight Classification Rule 35, Section 7.	To add the following definition in alphabetical sequence in § 171.8: "Empty tank car" means a tank car containing a hazardous material which does not some car containing a hazardous material which does not some first the following a hazardous material which does not some first the following a hazardous material which does not some first the following a hazardous material which does not some first the first that the first			
	Lithium Corp. of America		Authorizes shipment of lithium hydroxide monohydrate in DOT Specification 21C fiber drum having a capacity of 65 gallons and a maximum net weight of 550 pounds (modes 1, 2, and 3).	To revise paragraph (5) to read (5) Fiber drum not exceeding 550 pounds net weight and not over 65-gatton capacity. When shipped by water, each drum must include a moisture barrier.			
7837-No	Barber Steamship Lines		Authorizes shipments of tigarette lighters charged with a flammable gas in nonventilated freight container. The access doors of each nonventilated freight container must have the following warning sign. "WARNING—MAY CONTAIN EXPLOSIVE MIXTURES WITH AIR—KEEP IGNITION SOURCES AWAY WHEN OPENING." The warning sign must be on a contrasting background and must be readily legible from a distance of 25 feet (mode 3).	To amend column (7)(c) by deleting the requirement "Not permitted in nonventilated container" for the entries for "Cigarette lighter" (when classed as fianunable gas) and "Motor vehicle."			
		173.302	do	To add paragraph (c) to read:			
		176.905(k)	do	(c) For transportation by vessel in a closed transport vehicle or a closed freight container, the following warning must be affixed to the access doors "WARNING—MAY CONTAIN EXPLOSIVE MIXTURES WITH AIR—KEEP IGNITION SOURCES AWAY WHEN OPENING." The warning must be on a contrasting background and must be readily legible from a distance of 25 feet. To revise paragraph (k) to read: (k) Motor vehicles with fuel in their tanks may be stowed in closed freight containers if the following warning is affixed to the access doors "WARNING—MAY CONTAIN EXPLOSIVE MIXTURES WITH AIR—KEEP IGNITION SOURCES AWAY WHEN OPENING." The warning must be on a contrasting			

Proposed amendments of hazardous materials regulations to terminate special permi

_	Identification 1	io.	Applicant he	older	Regulat affects		Nature of exemption	or or	
	7839-No				-	3	uthorizes shipments of transium sufface solution taining not more to 20 percent suffuric acid DOT Specification 21 filter drum overpack winside specification 25 polyethylene containes not over 55-gallon aspacity or 2U polyethylene containes not over 15-gallon aspacity over 15-gallon aspacity of mode 1).	ion han F id in (c P o vith o L g	add para
	932-No				173.119(m)	(10) Au V V	apacity (mode 1). khorizes shipment of arious fiammable liquition are also corrosis DOT Specification are 3 cargo tank (mode)	nds /ein h 1C ca t). m	revise par (10) Specticle meet argo tank leet § 178 or flamm
		Sup	eum Equipme	nt tion.	172.101 173.110(b)	c c p p c c s l c c c s l c c c c c c c c c c c	thorizes shipment of hardered oil well jet erforating gims as Cle explosives for water nipments under limite and the second of t	To pe	revise the
(1)	(2)	(3)	(4)		(5)		(6)		
•/	Hazardous materials	**.	Label(s)		Packaging		Maximum net qua in 1 package		,
W/	descriptions and proper shipping glames	Hazard class	required (if not excepted)	(a) Excepti	ions Sp	(b) eclfic juire- ents	(a) Passenger carrying aircraft or railcar	(b) Cargo only aircraft	:
	•				•				
	Charged oil well jet perforating gun (total explosive content in guns not exceeding 20 lb per motor vehicle, special offshore downhole tool pallet, or vessel).	Class C explosive.	Explosive C		None 173.11	0	. Forbidden Fo	rbidden	·····

Proposed amendments of hazardous materials regulations to terminate special permits and exemptions—Continued

Identification No.	Applicant holder	Regulation alfected	Nature of exemption or application	Nature of proposed amendment
E 7932-No	Petroleum Equipment Buppliers' Association.	17201 17310(b)	Authorizes shipment of charged oil well jet perforating guns as Class C explosives for water shipments under limited conditions. These devices may be shipped in specialized motor vehicles or in offshore downhole tool pallets aboard private offshore oil well supply vessels. Such shipments were authorized under U.S. Coast Guard regulations (49 CFR 146.20-7(1)) prior to the consolidation of the hazardous materials regulations (Docket HM-112). Docket HM-112 failed to provide for these shipments. The devices are needed at offshore drilling rigs for oil exploration and exploration auronaverse.	To revise the section heading in § 173.110 and to add para graph (c) to read: § 173.110 Charged oil well jet perforating guns, tota explosive content in guns not exceeding 20 pounds permotor vehicle, pallet, or vessel. (c) Charged oil well jet perforating guns may be of fered for transportation and transported by private off shore oil well supply vessels only when carried in special motor vehicles as prescribed in § 173.80 or on offshort downhole tool pallets, and accompanied by personne trained in the safe handling of these devices, provided that: (1) No blasting caps, electric blasting caps or other firing devices shall be affixed or installed in the guns, (3) Each shaped charge, if not completely enclosed in glass or metal, shall be fully protected by a metal coverafter installation in the gun. (4) The total weight of the explosive contents of shaped charges assembled in guns being carried does not exceed 20 pounds per vehicle, pallet or vessel.

(49 U.S.C. 1803, 1804, 1808; 49 CFR 1.53(e) and paragraph (a)(4) of app. A to part 102.)

Note.—The Materials Transportation Bureau has determined that this document does not contain a major proposal requiring preparation of an economic impact statement under Executive Order 11821, as amended by Executive Order 11949, and OMB Circular A-107 nor an environmental impact statement under the National Exvironmental Policy Act (49 U.S.C. 4321 et seq.).

Issued in Washington, D.C., on May 26, 1978.

ALAN I. ROBERTS,
Associate Director for Hazardous Materials Regulation,
Materials Transportation Bureau.

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